SW MTP T 15HD A Series

Two, Four, and Six Input VGA and Audio Switchers with Integrated MTP - Mini Twisted Pair Transmitter

COMMON FEATURES

- **Outputs: Female RJ-45 connector for A/V UTP signal, captive screw connector for local audio output**
- **Transmits high resolution video and summed mono audio signals to MTP RL 15HD A, MTP RL 15HD A SEQ, or MTP U Series receiver**
- **Compatible with high resolution computer-video signals up to 1600x1200**
- **Supports RGBHV, RGBS, RGsB, component video, S-video and composite video**
- **Compatible with HDTV component video, bi-level or tri-level sync**
- **Pre-peaking circuit for optimizing video signal on long cable runs**
- **Local audio output on 3.5mm captive screw connecotrs**
- **Autoswitching mode**
- **RS-232 and contact closure control, female 9-pin D connector**
- **Rack-mountable, 1U, half rack width metal enclosure**
- **Rack, under-desk, and projector-mountable**
- **LED power indicator**
- **External universal power supply included,** part # 70-055-01 — Provides worldwide power compatibility.

DESCRIPTION

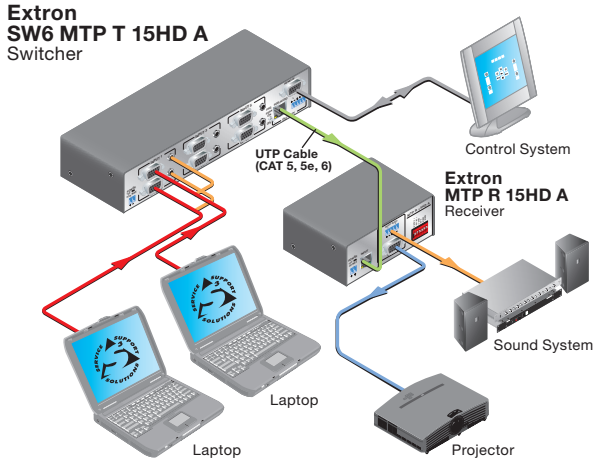
The Extron **SW MTP 15HD A Series** is a versatile family of switchers for selecting and transmitting high resolution computer-video and audio signals to presentation displays over a single UTP - unshielded twisted pair cable. The SW2 MTP T 15HD A, SW4 MTP T 15HD A, and SW6 MTP T 15HD A are two, four and six input, one output switchers that transmit RGBHV, RGBS, RGsB, HDTV and audio signals to a compatible MTP R 15HD A receiver. The SW MTP 15HD A series of switchers can be used with Extron Enhanced Skew-Free A/V UTP cable or any CAT 5, 5e, or 6 data grade twisted pair cable for point-to-point cable runs of 600 feet (185 meters) or more with XGA signals, and 450 feet (135 meters) or more with UXGA signals.

Each model accepts two, four, or six computer video and audio inputs on female 15-pin HD connectors and 3.5 mm stereo audio jacks. The switcher transmits the selected computer video and summed mono audio signal to a compatible twisted pair receiver. Also, the switcher features a second audio output from a 3.5 mm captive screw connector for sending a balanced or unbalanced line level stereo audio signal to a local amplifier, recording device, or video conferencing codec.

Each switcher can be controlled using the front panel or remotely via contact closure or RS-232 signals. The dual-function remote control feature allows for numerous installation and control options. For example, the switcher can be installed in a secure location, such as an equipment rack or cabinet, and the control of the switcher can be managed using the optional Extron IR 102 Universal Remote Control Kit, KP 6 Keypad Remote Control, or IP Link control interface to create cost-effective solutions with maximum functionality.

Using the autoswitching feature, the switcher can be set to switch automatically to the active source. For example, a number of wall plate receptacles can be installed around a room, each routed to a different input of the switcher. When an active computer-video source is connected to the wall plate, the switcher automatically selects that input. When two or more sources are detected at the same time the highest numbered input is automatically selected. The autoswitch function can be enabled or disabled via front panel buttons.

The SW MTP 15HD A Series of switchers are designed for easy integration into new and existing A/V environments. The entire family of Extron MTP 15HD products sets the price/performance standard for audio/video twisted pair technology. The MTP 15HD Series is a complete twisted pair system including transmitters, receivers, and switchers, providing the ability to send, route, and distribute high resolution video, audio, and control signals. The SW MTP Series is ideal for systems where high resolution video signals must be transmitted long distances to a display, where conduit space is limited, or for systems where cabling might be exposed.



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SW2 MTP T 15HD A

Two Input VGA and Audio Switcher With Integrated MTP - Mini Twisted Pair Transmitter

UNIQUE FEATURES

- Input: Two female 15-pin HD connectors with 3.5 mm mini stereo jacks

MODEL	VERSION DESCRIPTION	PART #
SW2 MTP T 15HD A	Two Inputs	60-648-01

SW4 MTP T 15HD A

Four Input VGA and Audio Switcher With Integrated MTP - Mini Twisted Pair Transmitter

UNIQUE FEATURES

- Input: Four female 15-pin HD connectors with 3.5 mm mini stereo jacks

MODEL	VERSION DESCRIPTION	PART #
SW4 MTP T 15HD A	Four Inputs	60-649-01

SW6 MTP T 15HD A

Six Input VGA and Audio Switcher With Integrated MTP - Mini Twisted Pair Transmitter

UNIQUE FEATURES

- Input: Six female 15-pin HD connectors with 3.5 mm mini stereo jacks

MODEL	VERSION DESCRIPTION	PART #
SW6 MTP T 15HD A	Six Inputs	60-650-01

SW MTP T 15HD A Series

COMPATIBLE RECEIVERS	MODEL DESCRIPTION	PAGE	PART #
MTP RL 15HD A	MTP - Mini Twisted Pair Receiver for VGA and Audio with Loop-Through	page 75	60-690-01
MTP U Series	Universal MTP - Mini Twisted Pair Receiver	page 81	60-869-0X
VTR001	VT - VGA Twisted Pair Receiver for RGBHV	page 66	60-582-01
VTR001 AAP	VT - VGA Twisted Pair Receiver for RGBHV - AAP Version	page 66	70-259-11
VTR001 MAAP	VT - VGA Twisted Pair Receiver for RGBHV - MAAP Version	page 66	70-285-11

INCLUDED ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #
EPS 1210 B	Extron Desktop Power Supply - 12VDC, 2A, wire	page 694	70-055-01

OPTIONAL ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #
KP 6	Keypad Remote Control For Use With 9-pin Contact Closure Port	page 279	60-111-20
IR 102 Remote Control Kit	IR to RS-232 or Contact Closure Conversion Kit	page 271	70-224-01
RSU 129	1U 9.5" Deep Universal Rack Shelf Kit	page 819	60-190-01
RSF 123	1U 3.5" Deep VersaTools® Rack Shelf Kit	page 818	60-190-20
MBU 123	VersaTools® Mini Under-Desk Mount Kit	page 815	70-212-01

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SW MTP T 15HD A Series

SPECIFICATIONS

VIDEO

Number / Signal type ..... 1 set of proprietary analog signals
Connectors ..... 1 female RJ-45

VIDEO INPUT

Number / Signal type ..... 2, 4, or 6 (depending on the model) analog VGA-UXGA RGBHV, RGBS, RGsB, component video, S-Video or composite video
Connectors ..... 2, 4, or 6 (depending on the model) female 15-pin HD
Nominal level ..... 1 Vp-p for Y of component video and S-video, and for composite video
0.7V p-p for RGB and for R-Y and B-Y of component video
0.3V p-p for C of S-video
Minimum / Maximum levels ... Analog: 0.3 V to 1 Vp-p with no offset
Impedance ..... 75 ohms
Horizontal frequency ..... 15 kHz to 130 kHz
Vertical frequency ..... 30 Hz to 150 Hz
Return loss ..... <-30 dB @ 5 MHz
DC offset (max. allowable) ..... 2 V

VIDEO OUTPUT

REFER TO TWISTED PAIR RECEIVERS' SPECIFICATIONS AND MANUALS

SYNC

Input type ..... RGBHV, RGBS, RGsB
Standards ..... NTSC 3.58, NTSC 4.43, PAL, SECAM
Input level ..... 2.5 V to 5.5 V
Input impedance ..... 560 ohms
Max input voltage ..... 5.5 V

AUDIO

Number / Signal type ..... 1 set of proprietary analog signals
Connectors ..... 1 female RJ-45
Gain ..... 0 dB (unbalanced), +6 dB (balanced)
Frequency response ..... 20 Hz to 20 kHz, ±1 dB
THD + Noise ..... 0.01% @ 1 kHz, 0.03% @ 20 kHz
S/N ..... >75 dB at maximum output, unweighted
Crosstalk ..... <-70 dB,@ 20 Hz to 20 kHz, +4 dBu stereo output
Stereo channel separation .... >62 dB @ 20 Hz to 20 kHz
CMRR ..... >43 dB @ 20 Hz to 20 kHz

AUDIO INPUT

Number / Signal type ..... 2, 4, or 6 (depending on the model) stereo, unbalanced
Connectors ..... 2, 4, or 6 (depending on the model) 3.5 mm mini audio jacks (tip, ring, sleeve)
Impedance ..... >10k ohms unbalanced
Nominal level ..... -10 dBV (316 mVrms)
Maximum level ..... +15 dBV, unbalanced, at <1% THD+N

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

AUDIO OUTPUT

Number / Signal type ..... 1 set of proprietary analog signals to be sent to an MTP receiver
1 stereo, balanced/unbalanced
Connectors ..... 1 female RJ-45 (for proprietary signals)
(1) 3.5 mm captive screw connector, 5 pole
Impedance ..... 50 ohms unbalanced, 100 ohms balanced (for the stereo output)
Gain error ..... ±1 dB channel to channel (for stereo output)
Maximum level (Hi-Z) ..... >+23 dBu, balanced, at <1% THD+N (for stereo output)
Maximum level (600 ohm) ..... >+17 dBu, balanced at <1% THD+N (for stereo output)
Stereo channel separation .... >60 dB @ 1 kHz

CONTROL / REMOTE – SWITCHER / TRANSMITTER

Serial control port ..... RS-232, 9-pin female D connector (shared with contact closure)
Baud rate and protocol ..... 9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configurations ..... 2 = TX, 3 = RX, 5 = GND
Contact closure ..... RS-232, 9-pin female D connector (shared with serial control)
Contact closure pin configurations ..... 1 = input 1, 4 = input 2, 5 = GND, 6 = input 3, 7 = input 4, 8 = input 5, 9 = input 6
Program control ..... Extron's control/configuration program for Windows®
Extron's Simple Instruction Set (SIS™)

GENERAL

Power ..... Supplied by an external power supply

NOTE: The SW MTP Series transmitters cannot supply remote power to or receive remote power from attached receivers.

External power supply ..... 100 VAC to 240 VAC, 50/60 Hz, external, to 12 VDC, 2 A, regulated
Power input requirements ..... 12 VDC, 0.6 A
Temperature / Humidity ..... Storage -40° to +158°F (-40° to +70°C) / 10% to 90%, noncondensing
Operating +32° to +122°F (0° to +50°C) / 10% to 90%, noncondensing
Cooling ..... Convection, unvented
Rack mount ..... Yes, with optional 1U, 9.5" deep rack shelf, part #60-190-01 or 60-604-01; or VersaTools® 3" deep rack shelf, part #60-190-20 or 60-604-20.
Also furniture
Enclosure type ..... Metal
Enclosure dimensions ..... 1.75" H x 8.75" W x 3.0" D (1U high, half rack wide)
4.4 cm H x 22.2 cm W x 7.6 cm D
(Depth excludes connectors and toggle switch.)
Product weight ..... 0.8 lbs (0.4 kg)
Shipping weight ..... 3 lbs (2 kg)
Vibration ..... ISTA 1A in carton (International Safe Transit Association)
Listings ..... UL, CUL
Compliances ..... CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF ..... 30,000 hours
Warranty ..... 3 years parts and labor

NOTE: All nominal levels are at ±10%. Specifications are subject to change without notice.

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